

METHOD OF GENERATING UNIFORM PORES IN THIN POLYMER FILMS

ABSTRACT OF THE DISCLOSURE

Methods of generating pores in thin sheets of material, typically thin polymer films, are provided. The methods allow for generation of pores which uniformly penetrate the material. The method comprises laminating a thick film onto a thin film, then directing a laser source onto the thin film so as to form pores through the thin film. The increased stiffness conferred by the thick film reduces wrinkle formation in the thin film, resulting in uniform thickness of the thin film and consequent uniformity of pore depth. The invention further provides aerosolization containers and devices comprising membranes formed according to the invention.

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